

MARKUP

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Fig 12D shows a compressor and decompressor connected to a communications channel.

Fig 13A shows elements of a compressor.

Fig 13B shows an embodiment of an encoding circuit.

Fig 13C shows a generic pixel sub-sampler.

Figs 13D through 13J show embodiments of pixel sub-samplers.

Figs 14A through ~~14c~~ shows embodiments of a machine element for variably altering the number of bits. ^{14C}

Fig 15 shows elements of a decompressor.

Fig 16A shows elements for setting width, height, frame rate, brightness, and contrast which are variably altered by a receiver.

Fig 16B shows elements for setting the number of pixel bits which are variably altered by a receiver.

Fig 17 shows a lossless compression step for further compression an encoded data buffer.

Fig 18 shows images being enlarged by stretching.

Reference Numerals in Drawings

100	compression steps	110	sub-sampling step
130	encoding step		
140	encoded data	150	decompression steps
160	decoding step	180	image reconstitution step
200	32 bit pixel value		
202	blue channel	204	green channel
206	red channel	208	alpha channel
210	24 bit pixel value	212	blue component
214	green component	216	red component
220	RGB averaging diagram	222	blue value
224	green value	226	red value
228	averaged value	230	blue selection diagram
232	blue instance	234	green instance

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1430 36-bit to variable bit sub-sampler
1440 24/36 bit variable bit sub-sampler
1450 second selector
1460 selection logic
1510 decoding circuit < 1470 selection signal
1520 decoded pixel values
1530 decoder pixel index
1540 image memory
1600 transmitter
1610 receiver
1615 setting control path
1620 frame sub-sampler
1621 path 1621
1630 selected frame
1632 pixel from frame
1640 transmitter pixel sub-sampler
1642 path 1642
1650 run length encoder
1660 settings
1661 brightness
1662 contrast
1663 height
1664 width
1665 frame rate
1670 frame selector
1675 frame select indicator
1680 number of pixel bits setting
1700 run-length encoding step
1710 run-length encoded output
1720 further lossless compression step
1730 further lossless compression output
1800 unstretched frame
1810 enlarged image
1820 stretching step

DESCRIPTION OF THE INVENTION

Fig 1—Compression and Decompression Steps

Fig 1 illustrates a sequence of compression steps 100 and a sequence of decompression steps 150 of the present invention. The compression steps 100 comprise a sub-sampling step 110 and an encoding step 130. After completion of the compression steps 100, a stream of encoded data 140 is output to either a storage medium or a transmission